

What is the CTPP?

The CTPP represents a collection of specially designed Census Transportation Planning Products designed by transportation planners for transportation planners. Historically, the CTPP has evolved from a single set of special tables into a multi-year program covering a variety of products.



1960 OMB Journey-to-Work Tables

1970 Urban Transportation Planning
Package **UTPP**

1980 Urban Transportation Planning Package
Urban Transportation Planning System-UTPS

1990 Census Transportation Planning Package

2000 Census Transportation
Planning Package



2005 **Census Transportation
Planning Products**



What is CTPP 2000?



The Census Transportation Planning Package 2000 is a set of special tabulations from the long form of the decennial census designed by transportation planners for transportation planners

It summarizes the data



At Residence

Flows between
Home and Work



At Workplace

Who developed it?



CTPP 2000 was a product of the states and MPOs funded through an AASHTO Pooled Fund Project

It was guided by a Working Group

USDOT (FHWA, BTS, FTA and OST)

Census Bureau (Migration and Geography Divisions)

AASHTO

States and MPOs

TRB Subcommittee on Census Data

www.TRBcensus.com

Who paid for it?



	Buyers/Users	Direct Cost	Tables
1960	OMB	???	???
1970	112	\$0.6 M	43
1980	152	\$2.0 M	82
1990	All States and MPOs	\$2.5 M	120
2000		\$3.0 M	203

What are the CTPP 2000 Products?



Main CTPP 2000 Products

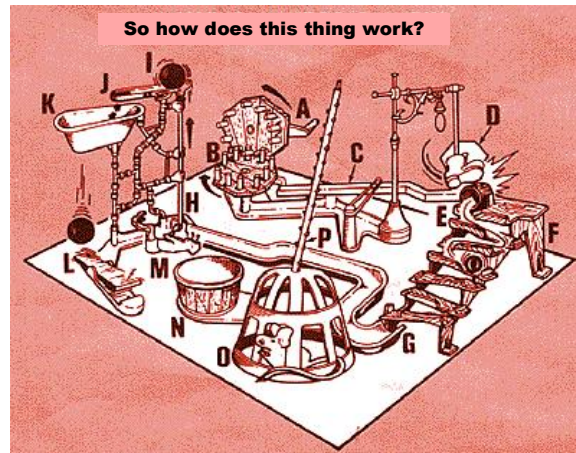


Collateral Products

- ◎ **State and County Profiles**
- ◎ **County Flow Data**

What is in CTPP 2000?

Let's Look at the Details



Tables—Lots of Tables



121 Tables of Residents' Based Data

68 Tables of Work Place Data

14 Tables of Flow Data

Variables--Lots of Variables



Person and Workers

Worker Status
Age, Sex, Race, Hispanic
Origin, Disability

Household


Income
Nos. Vehicles Available
Size and Nos. Workers

Journey-to-Work

Work Location and Mode
Departure and Travel Time
Arrival Time (Calculated)

Geography--Lots of Geography

	T A Z or Block Groups	Tracts	Combined Zones	MCD in 12 States	Places >2,500	County	State
Part 1 (at Residence)	← 121 Tables →						
Part 2 (at Workplace)	← 68 Tables →						
Part 3 (Worker Flows)	← 14 Tables →						



Bureau of Transportation Statistics
The Intermodal Transportation Database

TranStats
Wednesday, November 24, 2004

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Census Transportation Planning Package CTPP 2000

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Data


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Bookstore



Census Transportation Planning Package 2000 (CTPP) - Part 2: Data by Place of Work CD

These CDs provides tabulations of households, persons and workers by place of work.

https://www.bts.gov/pdc/

Census 2000

Short Form and Long Form

PLEASE DO NOT FILL OUT THIS FORM.
This is not an official census form. It is for informational purposes only.

United States Census 2000

U.S. Department of Commerce
Bureau of the Census

This is the official form for all the people at this address. It is quick and easy, and your answers are protected by law. Complete the Census and help your community get what it needs — today and in the future!

Start Here

1. How many people were living or staying in this house, apartment, or mobile home on April 1, 2000?

Number of people

INCLUDE in this number:

- foster children, roomers, or housemates
- people staying here on April 1, 2000 who have no other permanent place to stay
- people living here most of the time while working, even if they have another place to live

DO NOT INCLUDE in this number:

- college students living away while attending college

PLEASE DO NOT FILL OUT THIS FORM.
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DO NOT INCLUDE in this number:

- college students living away while attending college

The "Informational Copy" shows the content of the United States Census 2000 "long" form questionnaire. Each household will receive either a short form (100-percent questions) or a long form (100-percent and sample questions). The long form questionnaire includes the same 6 population questions and

↑

↓

Census 2000 **Short Form Questionnaire**

7 Questions

Name

Sex

Age

Relationship

Hispanic Origin

Race

Owner/Renter Status

Census 2000 **Long Form Sampling Pattern**



For the U.S. as a whole, about one
in six households received the
long-form questionnaire.

17%

Transportation Related Questions **Long Form**

Place of Work

Means of Transportation to Work

Carpool Occupancy to Work

Departure Time for Work

Travel Time to Work



Vehicles Available



CTPP 2000 Data Issues

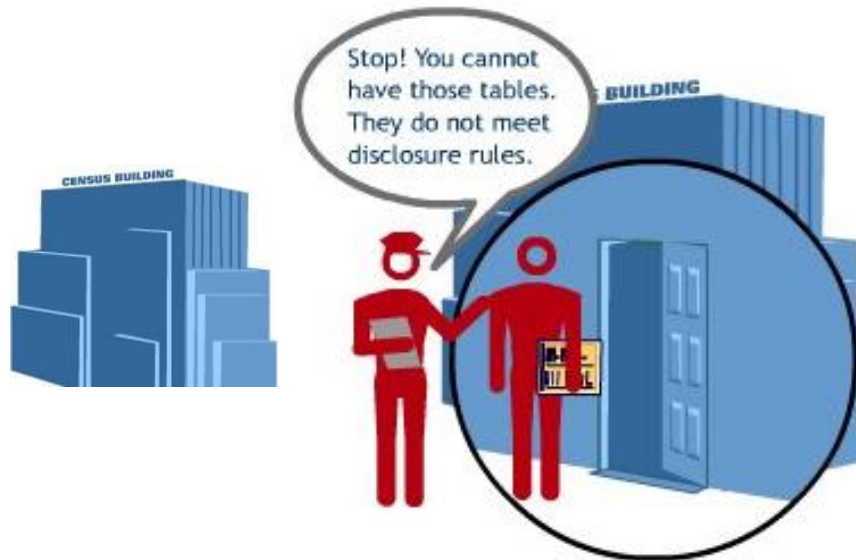
Rounding and Thresholds

Workplace Geocoding

Worker Counts

Travel Time Top Coding

Disclosure Review Board



CTPP 2000 Post DRB

Part 1: at Residence (121 Tables)

All Tables Rounded

Zero = 0

1 through 7 = 4

8 though ∞ = Nearest Multiple of "5"

Part 2: at Workplace (68 Tables)

All Tables Rounded

Part 3: Worker Flows (14 Tables)

All Tables Rounded

Some Tables with Thresholds

Example of Rounding

Mode to Work	Circa 1990	For 2000 (ROUNDED)
Total	352	350 (not 355!)
Drive Alone	212	210
Carpool	46	45
Transit	59	60
Walk	33	35
Bike	2	4

True Total 354

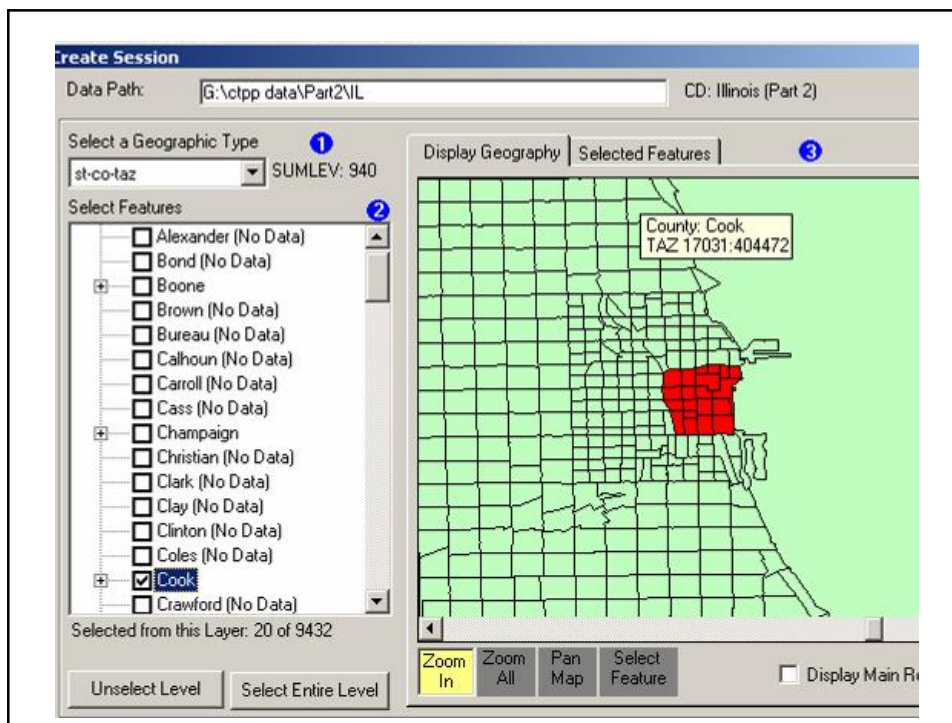


Table 2-027, Hispanic origin (3) by Race of person (5) by Means of transportation to work

HISPANIC	Total, Hispanic origin (3)			
RACE	Total, Race of person (5)			
MEANS8	Total, Means of transportati...	Drove alone	2-person carpool	3-or-more-pers carpool
GEO_ID				
TAZ 17031:L11423	49,275	12,200	3,000	9
TAZ 17031:L11428	29,365	8,315	1,780	5
TAZ 17031:L11446	15,035	3,705	1,015	2
TAZ 17031:L11448	5,200	3,115	440	1
TAZ 17031:L11449	25,655	7,240	1,620	5
TAZ 17031:L12427	920	410	130	
TAZ 17031:L12428	9,610	3,025	675	1
TAZ 17031:L12446	22,115	4,925	1,440	3
TAZ 17031:L12449	67,795	14,565	3,640	1,1
TAZ 17031:L12451	1,130	595	55	
TAZ 17031:L21423	42,370	11,465	2,660	8
TAZ 17031:L21427	7,630	2,155	670	1

Chicago CBD -CTPP 2000 Data

	Total	SOV	Carpool	Bus	Rail	Other	Home	Row Tot
L11423	49,275	12,200	3,915	6,410	24,580	2,160	10	49,275
L11428	29,365	8,315	2,340	4,210	12,780	1,715	4	29,364
L11446	15,035	3,705	1,240	2,430	7,010	640	15	15,040
L11448	5,200	3,115	550	570	745	150	65	5,195
L11449	25,655	7,240	2,120	2,775	12,325	1,195	0	25,655
L12427	920	410	155	65	85	95	105	915
L12428	9,610	3,025	835	1,660	3,535	555	0	9,610
L12446	22,115	4,925	1,770	4,595	9,915	905	0	22,110
L12449	67,795	14,565	4,820	8,035	36,950	3,420	0	67,790
Rest	124,955	34,255	10,324	17,410	57,165	5,460	328	124,942
								349,896
Col Tot	349,925	91,755	28,069	48,160	165,090	16,295	527	

	A	B	C	D	E	F	G	H	
1									
2	SEX	Total, Sex (3)							
3	MEANS18	Total, Mean Drove alone	2-person c	3-person c	4-person c	5-or-6-pers	7-or-more-	Bus	
4	GEO_ID								
5	Tract 530670101.0	1725	900	115	20	4	0	4	
6	Tract 530670102.0	2610	2035	170	35	15	0	4	
7	Tract 530670103.0	2780	1710	345	60	50	0	0	
8	Tract 530670104.0	1735	1285	115	10	10	0	0	
9	Tract 530670105.0	3475	2315	435	55	40	10	15	
10	Tract 530670106.0	2975	2080	320	4	10	15	0	
11	Tract 530670107.0	2330	1885	225	35	20	15	4	
12	Tract 530670108.0	3145	2370	345	50	10	10	0	
13	Tract 530670109.0	4695	3730	495	65	10	4	0	
14	Tract 530670110.0	2540	2190	90	0	0	10	0	
15	Tract 530670111.0	1350	1055	145	30	4	0	0	
16	Tract 530670112.0	2090	1575	170	0	0	10	0	
17	Tract 530670113.0	1535	1130	240	0	10	0	0	
18	Tract 530670114.1	2395	1825	175	95	25	0	4	
19	Tract 530670114.2	3140	2430	440	50	0	4	0	
20	Tract 530670115.0	2590	1890	425	80	0	0	10	

	A	B	C	D	E	F	G	H	
1									
2	SEX	Total, Sex (3)							
3	MEANS18	Total, Mean Drove alone	2-person c	3-person c	4-person c	5-or-6-pers	7-or-more-	Bus	
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8	Tract 530670104.0	1735	1285	115	10	10	0	0	
9	Tract 530670105.0	3475	2315	435	55	40	10	15	
10	Tract 530670106.0	2975	2080	320	4	10	15	0	
11	Tract 530670107.0	2330	1885	225	35	20	15	4	
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16	Tract 530670112.0	2090	1575	170	0	0	10	0	
17	Tract 530670113.0	1535	1130	240	0	10	0	0	
18	Tract 530670114.1	2395	1825	175	95	25	0	4	
19	Tract 530670114.2	3140	2430	440	50	0	4	0	
20	Tract 530670115.0	2590	1890	425	80	0	0	10	

Rounding Tips

1. Obtain your "regional control totals" from the most geographically aggregate summary levels
2. Avoid aggregating (summing together) your geographies
3. Avoid aggregating categories
4. Sum as few categories as possible
5. Adjust (de-round, un-round) as you see fit. SF3 or PUMS can provide control totals to adjust the CTPP Part 1 data.
6. Develop a sense of humor.

So is it "close enough for government work?"

Mode to work for Thurston Residents						
	SF3	CTPP	SF3	CTPP	SF3	CTPP
Tract	Total:		Car, truck, or van:		Drove alone	
101	1,727	1,725	1,047	1,043	900	900
102	2,608	2,610	2,259	2,259	2,037	2,035
103	2,782	2,780	2,158	2,165	1,708	1,710
104	1,733	1,735	1,420	1,420	1,283	1,285
105	3,473	3,475	2,868	2,870	2,314	2,315
106	2,974	2,975	2,432	2,429	2,080	2,080
107	2,332	2,330	2,180	2,184	1,884	1,885
108	3,144	3,145	2,789	2,785	2,371	2,370
109	4,697	4,695	4,310	4,304	3,732	3,730
110	2,539	2,540	2,287	2,290	2,190	2,190
111	1,352	1,350	1,235	1,234	1,054	1,055
112	2,091	2,090	1,751	1,755	1,575	1,575
113	1,533	1,535	1,383	1,380	1,132	1,130
114.1	2,394	2,395	2,130	2,124	1,827	1,825
123.3	1,866	1,865	1,766	1,765	1,582	1,580
124.1	3,410	3,410	3,116	3,119	2,589	2,590
124.2	1,848	1,850	1,765	1,759	1,575	1,575
125	4,402	4,400	4,060	4,065	3,411	3,410
126	3,910	3,910	3,673	3,670	3,222	3,220
127	4,862	4,860	4,496	4,499	3,753	3,755
	100,986	100,985	90,741	90,728	77,933	77,925
		-0.001%		-0.014%		-0.010%

Means of Transportation to Work for Orange County (FL) Residents

Tract	Total		Car, truck, van		Drove Alone		Public Trans	
	SF3	CTPP	SF3	CTPP	SF3	CTPP	SF3	CTPP
101	133	135	77	74	71	70	25	25
102	2,440	2,440	2,098	2,095	1,981	1,980	45	35
103	1,527	1,525	1,349	1,345	1,181	1,180	34	35
104	489	490	270	264	202	200	168	170
105	635	635	327	330	294	295	221	209
106	1,127	1,125	512	510	352	350	392	390
107.01	340	340	314	315	264	265	0	0
178.04	2,650	2,650	2,487	2,485	2,032	2,030	0	0
178.05	1,334	1,335	1,249	1,250	1,119	1,120	0	0
178.06	2,668	2,670	2,456	2,455	2,201	2,200	12	10
178.07	1,722	1,720	1,581	1,573	1,352	1,350	33	35
178.08	1,652	1,650	1,554	1,550	1,426	1,425	0	0
179.01	1,084	1,085	1,062	1,068	918	920	0	0
179.02	1,653	1,655	1,466	1,465	1,264	1,265	15	15
	439,323	439,350	404,604	404,546	351,068	351,050	10,923	10,541
	0.0061%		- 0.0143%		- 0.0051%		- 3.4972%	

Odd Modes

P30. MEANS OF TRANSPORTATION TO WORK FOR WORKERS 16 YEARS AND OVER [16] - Universe: Workers 16 years and over											
Data Set: Census 2000 Summary File 3 (SF 3) - Sample Data											
NOTE:											
Tract	Total	Car, truck, or van	Drove alone	Carpooled	Public transportation	Bus or trolley bus	Streetcar or trolley	Subway / elevated	Railroad	Ferryboat	Taxicab
12	1,639	1,484	1,168	316	25	13	8	0	0	0	4
22	1,278	1,105	841	264	49	35	7	0	0	0	7
17	3,481	3,188	2,749	439	57	32	0	7	0	0	18
2.05	1,580	1,521	1,354	167	4	0	0	4	0	0	0
19	1,606	999	752	247	75	65	0	0	0	7	3
1	4,017	3,823	3,572	251	21	21	0	0	0	0	0
2.01	3,185	3,003	2,616	387	73	61	0	0	0	0	12
2.03	3,535	3,358	3,077	281	9	0	0	0	0	0	9
2.04	5,177	4,912	4,380	532	9	9	0	0	0	0	0
3	2,434	2,282	2,037	245	32	27	0	0	0	0	5
4	3,065	2,885	2,531	354	33	25	0	0	0	0	8
5	2,791	2,617	2,374	243	53	53	0	0	0	0	0
6	1,503	1,361	1,246	115	60	60	0	0	0	0	0
7	1,336	1,230	1,142	88	28	18	0	0	0	0	10

Linn County Iowa

P30. MEANS OF TRANSPORTATION TO WORK FOR WORKERS 16 YEARS AND OVER [16] - Universe: Workers 16 years and over
Data Set: Census 2000 Summary File 3 (SF 3) - Sample Data

NOTE:

Tract	Total:	Car, truck, or van:	Drove alone	Carpooled	Public transportation:	Bus or trolley bus	Streetcar or trolley	Subway / elevated	Railroad	Ferryboat	Taxicab
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Linn County Iowa

Thresholds

CTPP 2000 Post DRB

Part 1: at Residence (121 Tables)

All Tables Rounded

Zero = 0

1 through 7 = 4

8 through ∞ = Nearest Multiple of "5"

Part 2: at Workplace (68 Tables)

All Tables Rounded

Part 3: Worker Flows (14 Tables)

All Tables Rounded

Some Tables with Thresholds



Part 3: Worker Flow Tables

Table	Content
1	Total Workers (1)
2	Vehicles Available (3--zero,one or two+) by Means of Transportation
3	Poverty Status (3 categories)
4	Minority Status (2--white non-hispanic and all other)
5	Household Income (8 classifications)
6	Means of Transportation (17 modes)
7	Household Income (4 classifications) by Means of Transportation (4 modes)
8	Mean Travel Time by Means of Transportation to Work (7 modes) and Time Leaving Home for Work (2--AM peak and all other times)
9	Median Travel Time by Means of Transportation to Work (7 modes) and Time Leaving Home for Work (2 groupings)
10	Aggregate Number of Vehicles by Time Leaving Home for Work (2, see table 8)
11	Number of Workers per Vehicle by Time Leaving Home for Work (2, see table 8)
12	Aggregate Number of Carpools by Time Leaving Home for Work (2, see table 8)
13	Number of Workers per Carpool by Time Leaving Home for Work (2, see table 8)
14	Aggregate Travel Time by Means of transportation to work (7 modes) and Time Leaving Home for Work (2, see table 8)

No record threshold

Must have 3 unweighted records

Unweighed Records

	Home A	Home B	Home C	Home D
Work A	25	10	2	0
Work B	10	25	10	10
Work C	0	10	25	10
Work D	0	10	10	25

Home	Work	# Records
A	A	25
A	B	10
A	C	0
A	D	0
B	A	10
B	B	25
C	A	2

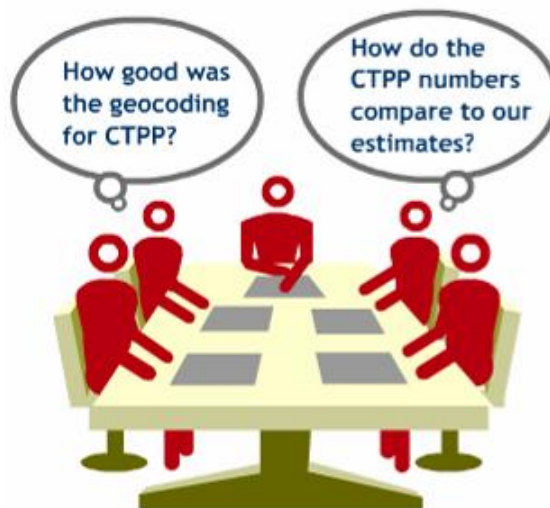
DRB Impact on Part 3

Intra-Bay Area, CTPP 2000, Part 3 Analysis

	Table 3-1 No Threshold		Table 3-6 w/ Thresholds	
County-to-County	3,258,465	Loss	3,258,465	Loss
Place-to-Place	3,257,152	0.0%	3,221,359	-1.1%
Tract-to-Tract	3,209,952	-1.5%	2,154,754	-33.9%
Zone-to-Zone	3,143,432	-3.5%	937,749	-71.2%

*Special Thanks to Chuck Purvis, MTC
For this Analysis*

Workplace Geocoding



a. For whom did this person work? *If now on active duty in the Armed Forces, mark ☒ this box → and print the branch of the Armed Forces.*

Name of company, business, or other employer
S t a r b u c k s

22 At what location did this person work LAST WEEK? *If this person worked at more than one location, print where he or she worked most last week.*

a. Address (Number and street name)

(If the exact address is not known, give a description of the location such as the building name or street or intersection.)

b. Name of city, town, or post office
L a k e v i e w

c. Is the work location inside the limits of city or town?
☐ Yes
☐ No, outside the city/town limits

d. Name of county
W a s h i n g t o n

e. Name of U.S. state or foreign country

28 Occupation
— 10th Edition

b. What kind of work?
Describe the work. Example: house, auto

22 At what location did this person work LAST WEEK? *If this person worked at more than one location, print where he or she worked most last week.*

a. Address (Number and street name)

1 2 3 S. M A I N S T.

(If the exact address is not known, give a description of the location such as the building name or the nearest street or intersection.)

b. Name of city, town, or post office

c. Is the work location inside the limits of that city or town?
☐ Yes
☐ No, outside the city/town limits

d. Name of county

e. Name of U.S. state or foreign country

f. ZIP Code

Workplace Geocoding



Workplace Geocoding Issues

Extended Allocation (25%)

TIGER Improvements (TAZ Definition)

Work-up

75%	Geocoded (machine automated and clerical)
15%	Standard allocation procedures
10%	Imputed Allocation (ala Lemoges)

Workers at Work Counts vs. Other Employment Sources



**Total jobs are HIGHER than CTPP
worker counts**

CTPP uses NAICS, others may use SIC

**Multi-site businesses and job types not reported
consistently**

Census 2000 employment estimates vs CPS

Extended Allocation for CTPP small areas

<http://www.trbcensus.com/articles/ctppworkers.pdf>

Top Coding of Travel Time

**The top coding of travel time changed
between 1990 and 2000. In 1990, the
data field for travel time was limited to
2 digits thereby restricting travel time
to a maximum of 99 minutes. In 2000,
the field was 3 digits with a top coding
of 200 minutes.**

Top Coding

Worker	2000	1990
	Travel Time in minutes	
1	200	99
2	14	14
3	23	23
4	6	6
5	15	15
6	20	20
7	12	12
8	8	8
avg	27.3	24.6

Geographic Area	Average travel time to work (in mins.)					Estimated avg. travel time in 2000 using max. time of 99 minutes	Difference, Census 2000 minus estimated 2000	Difference, estimated 2000 avg. travel time minus 1990 Census	Percent of 1990 Census to Census 2000 difference due to processing change
	1980 Census	1990 Census	Census 2000	Change, 1980 to 1990 (in mins.)	Change, 1990 to 2000 (in mins.)				
US Total	21.7	22.4	25.5	0.7	3.1	24.6	0.9	2.2	29.0%
Alabama	21.6	21.2	24.8	-0.4	3.6	23.6	1.2	2.4	33.3%
Alaska	16.1	16.7	19.6	0.6	2.9	18.2	1.4	1.5	48.3%
Arizona	20.5	21.6	24.9	1.1	3.3	24.0	0.9	2.4	27.3%
Arkansas	18.4	19.0	21.9	0.6	2.9	20.9	1.0	1.9	34.5%
California	22.4	24.6	27.7	2.2	3.1	26.7	1.0	2.1	32.3%
Colorado	20.1	20.7	24.3	0.6	3.6	23.4	0.9	2.7	25.0%
Connecticut	20.6	21.1	24.4	0.5	3.3	23.6	0.8	2.5	24.2%
Delaware	19.8	20.0	24.0	0.2	4.0	23.1	0.9	3.1	22.5%
District of Columbia	20.0	27.1	26.7	7.1	-0.4	26.6	0.6	1.7	24.6%
Florida	20.9	21.8	26.2	0.9	4.4	25.1	1.1	3.3	25.0%
Georgia	21.0	22.7	27.7	1.7	5.0	26.5	1.2	3.8	24.0%
Hawaii	21.5	23.8	26.1	2.3	2.3	25.4	0.7	1.6	30.4%
Idaho	16.2	17.3	20.0	1.1	2.7	19.2	0.8	1.9	29.6%
Illinois	24.4	25.1	28.0	0.7	2.9	27.1	0.9	2.0	31.0%
Indiana	19.5	20.4	22.6	0.9	2.2	21.8	0.8	1.4	36.4%
Iowa	15.4	16.2	18.5	0.8	2.3	17.7	0.8	1.5	34.8%
Kansas	16.5	17.2	19.0	0.7	1.8	18.3	0.7	1.1	38.9%
Kentucky	21.0	20.7	23.5	-0.3	2.8	22.5	1.0	1.8	35.7%
Louisiana	23.1	22.3	25.7	-0.8	3.4	24.0	1.7	1.7	50.0%
Maine	17.6	16.9	22.3	-0.7	5.4	24.7	1.8	7.8	27.0%
Michigan	20.5	21.2	24.1	0.7	2.9	23.2	0.9	2.0	31.0%

PDF 008 under PDF directory on Guidebook CD

When I get my CTPP data what should I do?

Examine the data

Check its reasonableness

Does it make sense?

Are people working where they should be?

Do the tables add up?

*Report all data issues to Nanda Srinivasan, FHWA,
(Phone 202-366-5021, email
nanda.srinivasan@fhwa.dot.gov)*

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